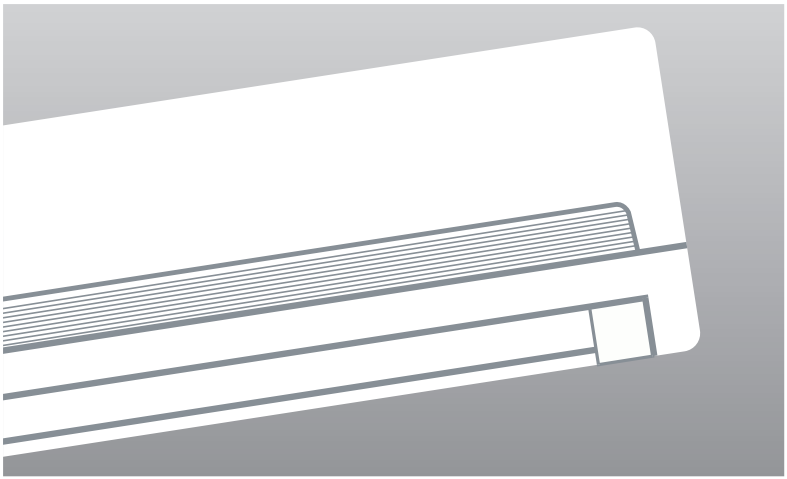
USER'S MANUAL

AS09F✳ Series
AS12F✳ Series
AS18F✳ Series
AS24F✳ Series
AS09N✳ Series
AS12N✳ Series
AS18N✳ Series
AS24N✳ Series

Split-type Room Air Conditioner
(Cool)



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Safety Precautions

The following safety precautions must be taken when using your air conditioner.

⚠ *WARNING* Risk of electric shock. • Can cause injury or death. • Disconnect all remote electric power supplies before servicing, installing or cleaning. • This must be done by the manufacturer or its service agent or a similar qualified person in order to avoid a hazard.

During operation

- Users of this product are cautioned not to attempt repair of this product at their own discretion. Instead, they are requested to directly contact a designated service center or the outlet at which the product was purchased.
- Never spill any kind of liquid into the unit. Should this happen, unplug or main switch off the unit and contact an authorized service center.
- Do not insert anything between the air outlet blades because the inner fan may be damaged and could cause injury. Keep children away from the unit.
- Do not place any obstacles in front of the unit.
- Do not spray liquid of any kind into the indoor unit. Should this happen, switch off the breaker used for your air conditioner and contact your installation specialist.
- Make sure that the unit is correctly ventilated at all times:
  Do not place clothing or other materials over it.
- If the wireless remote control will not be used for a long time, remove the batteries. (If applicable)
- When using a wireless remote control, the distance should not be more than 7 meters from the air conditioner. (If applicable)

Disposing of the unit

- Before throwing out the device, it is necessary to pull back the battery cells and get rid of them safely for recycling reasons.
- When you need to dispose of the unit, consult your dealer. If pipes are removed incorrectly, refrigerant may blow out and come into contact with your skin, causing injury. Releasing refrigerant into the atmosphere also damages the environments.
- Please recycle or dispose of the packaging material for this product in an environmentally responsible manner.

Others

- Never store or ship the air conditioner upside down or sideways to avoid damage to the compressor.
- The appliance is not intended for use by young children or infirm persons without supervision: Young children should be supervised to ensure that they do not play with the appliance.
- Max current is measured according to IEC standard for safety and current is measured according to ISO standard for energy efficiency.

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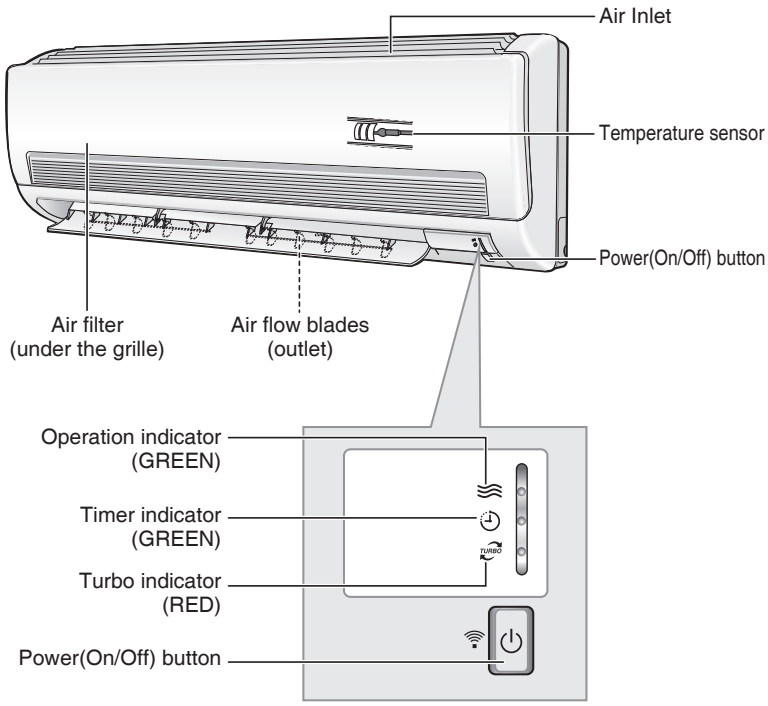
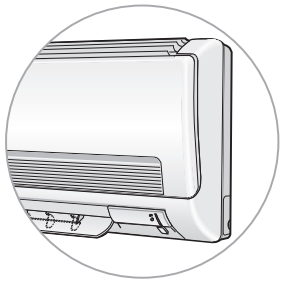
View of the Unit

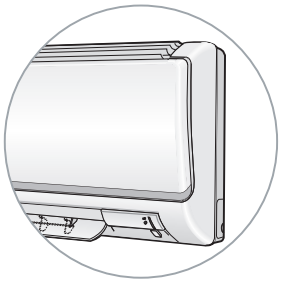
The design and shape are subject to change according to the model.

Indoor Unit





AS✳✳F✳ Series



AS✳✳N✳ Series

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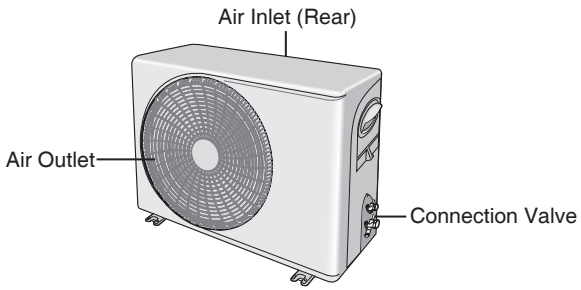
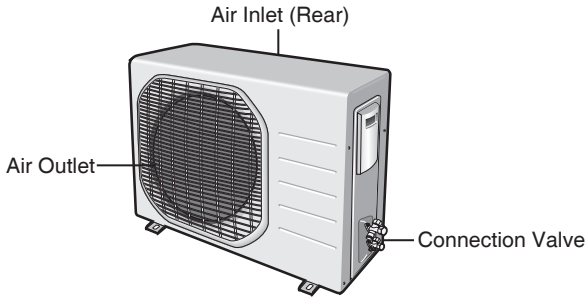
Outdoor Unit AS09/12✳✳ Series



Outdoor Unit AS18/24✳✳ Series



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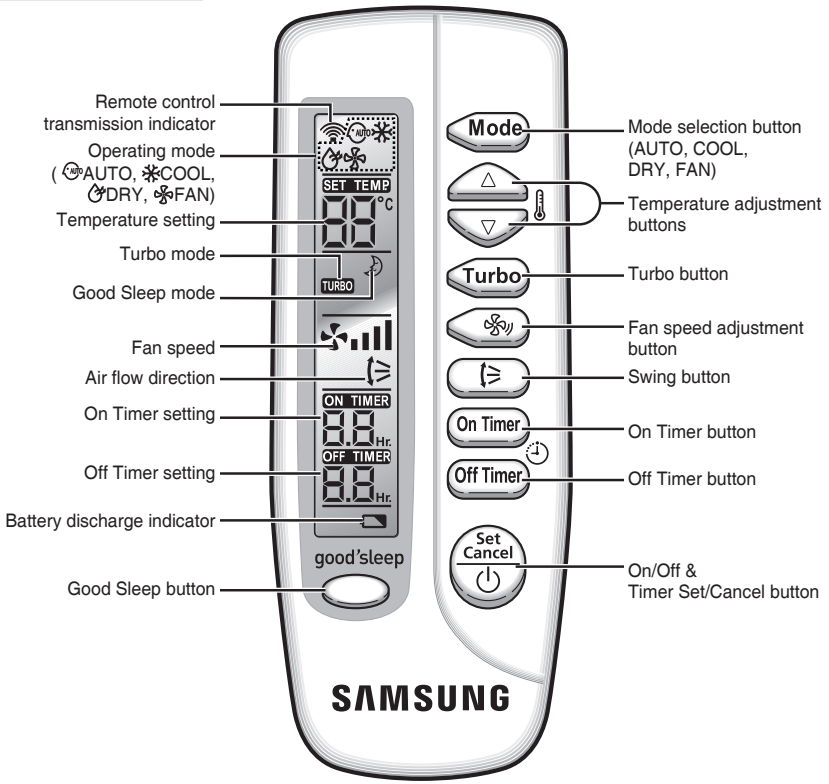
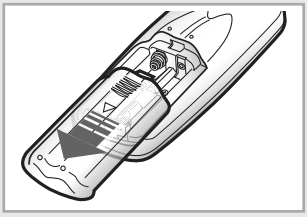
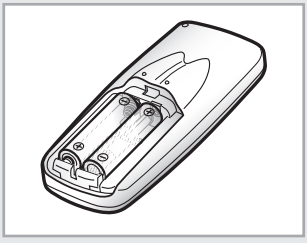
Remote Control - Buttons and Display



Inserting the Remote Control Batteries





You must insert or replace the remote control batteries when :

- ***You purchase the air conditioner***
- ***The remote control does not work correctly***

Note

- Use two AAA, LR03 1.5V batteries.
- Do not use old batteries or different kinds of batteries together.
- Batteries may be completely discharged after 12 months, even if they have not actually been used.

1 Push the battery cover on the rear of the remote control with your thumb in the direction of the arrow and remove it.

2 Insert the two batteries, taking care to respect the polarities :

- + on the battery with + on the remote control.
- - on the battery with - on the remote control.

3 Close the cover by sliding it back until it clicks into place.

Getting Started

You have just purchased a split type air conditioner and it has been installed by your installation specialist.

Your Owner's Instructions contains valuable information on using your air conditioner. Please take the time to read it as it will help you take full advantage of the unit's features.

The booklet is organized as follows.

- **The following figures are shown on pages from 4 to 6 :**
  - **Indoor and outdoor units**
  - **Remote control(buttons and display)**

  They will help you find the buttons and understand the symbols displayed.

- **In the manual, you will find a series of step-by-step procedures for each function available.**

The illustrations in the step-by-step procedures use three different symbols:

PRESS	**PUSH**	**HOLD DOWN**

Selecting the Automatic Operating Mode

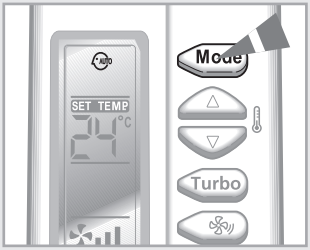
You can start the air conditioner in Auto mode from your remote control.

1 If necessary, press the Set Cancel button.

Result:
- ◆ The operation indicator on the indoor unit lights up.
- ◆ The air conditioner starts up in Cool mode with Turbo fan speed.
- ◆ The indoor unit beeps.

IMPORTANT The air conditioner is fitted with a protection mechanism to prevent the unit from being damaged when it is started immediately after being:
- ◆ Plugged in
- ◆ Stopped

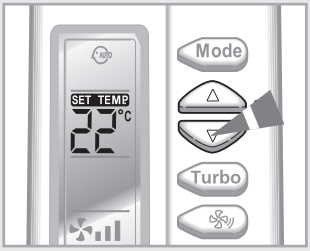
It will start up normally after three minutes.



2 If the AUTO is not displayed at the top of the remote control, press the Mode button on the remote control one or more times until it appears.

Result:
- ◆ The indoor unit beeps each time you press the Mode button.
- ◆ The air conditioner runs in the Auto mode.
- ◆ The Auto mode cools the room in optimum condition by adjusting the indoor temperature depending on the set temperature.

Note You can change modes at any time.



3 To adjust the temperature, press the button one or more times until the required temperature is displayed.
Possible temperatures are between 16°C and 30°C inclusive.

Result:
- ◆ Each time you press the button:
  - The temperature is adjusted by 1°C
  - The indoor unit beeps

Cooling Your Room

You must select the Cool mode if you wish to adjust the:

- ***Cooling temperature***
- ***Fan speed when cooling***

1 If necessary, press the Set Cancel button.

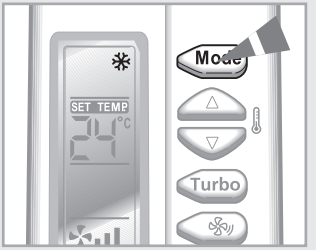
Result:
- The operation indicator on the indoor unit lights up.
- The air conditioner starts up in Cool mode with Turbo fan speed.
- The indoor unit beeps.

IMPORTANT The air conditioner is fitted with a protection mechanism to prevent the unit from being damaged when it is started immediately after being:
- Plugged in
- Stopped

It will start up normally after three minutes.

2 If the ❄ is not displayed at the top of the remote control, press the Mode button on the remote control one or more times until it appears.

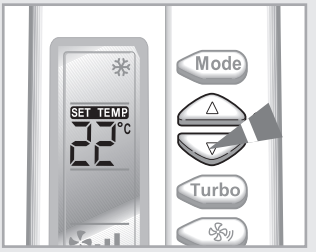
Result:
- The indoor unit beeps each time you press the Mode button.
- The air conditioner runs in the Cool mode.



Note You can change modes at any time.

3 To adjust the temperature, press the button one or more times until the required temperature is displayed.
Possible temperatures are between 16°C and 30°C inclusive.

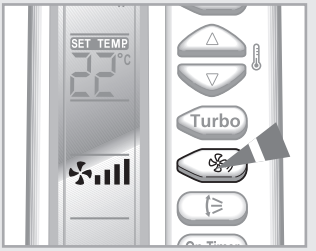
Result:
- Each time you press the button:
  - The temperature is adjusted by 1°C
  - The indoor unit beeps
- The air conditioner starts cooling, provided that the room temperature is higher than the selected temperature.
- If the room temperature reaches the set temperature, the air conditioner stops cooling, but the fan is still operating.



4 Select the fan speed by pressing the button one or more times until the required setting is displayed:

- Automatic (rotated : ➡ ➡)
- Low
- Medium
- High
- Maximum

Result: Each time you press the button, the indoor unit beeps.



5 To control the direction of the air flow, refer to page 13.

Removing Excess Humidity

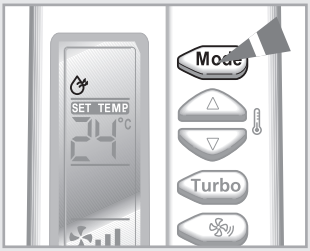
If the atmosphere in your room is very humid or damp, you can remove excess humidity without lowering the room temperature too much.

1 If necessary, press the Set/Cancel button.

Result:
- ◆ The operation indicator on the indoor unit lights up.
- ◆ The air conditioner starts up in Cool mode with Turbo fan speed.
- ◆ The indoor unit beeps.

IMPORTANT The air conditioner is fitted with a protection mechanism to prevent the unit from being damaged when it is started immediately after being:
- ◆ Plugged in
- ◆ Stopped

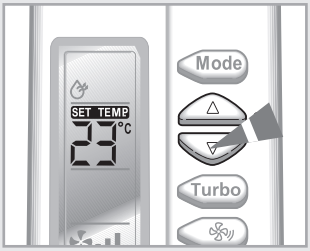
It will start up normally after three minutes.



2 If the dry mode icon is not displayed at the top of the remote control,press the Mode button on the remote control one or more times until it appears.

Result:
- ◆ The indoor unit beeps each time you press the Mode button.
- ◆ The air conditioner runs in the Dry mode.

Note You can change modes at any time.



3 To adjust the temperature, press the ▲ ▼ button one or more times until the required temperature is displayed.
Possible temperatures are between 16°C and 30°C inclusive.

Result:
- ◆ Each time you press the ▲ ▼ button:
  - The temperature is adjusted by 1°C
  - The indoor unit beeps
- ◆ The air conditioner starts removing the excess humidity; the quantity of air is adjusted automatically.
- ◆ The fan is running in auto mode.

4 To control the direction of the air flow, refer to page 13.

Airing Your Room

If the atmosphere in your room is stale, you can air the room using the Fan feature.

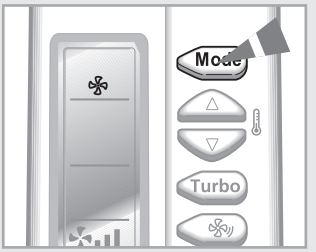
1 If necessary, press the (Set Cancel) button.

Result:
- ◆ The operation indicator on the indoor unit lights up.
- ◆ The air conditioner starts up in Cool mode with Turbo fan speed.
- ◆ The indoor unit beeps.

2 If the fan is not displayed at the top of the remote control,press the (Mode) button on the remote control one or more times until it appears.

Result:
- ◆ The indoor unit beeps each time you press the (Mode) button.
- ◆ The air conditioner runs in the Fan mode.
- ◆ The temperature is set automatically.

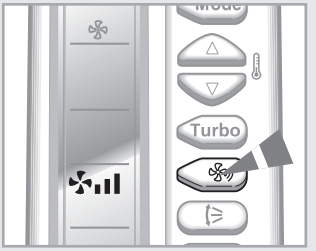
Note You can change modes at any time.



3 Select the fan speed by pressing the (Fan) button one or more times until the required setting is displayed:

- Low
- Medium
- High

Result:
- ◆ Each time you press the (Fan) button, the indoor unit beeps.



4 To control the direction of the air flow, refer to page 13.

Changing the Room Temperature Quickly

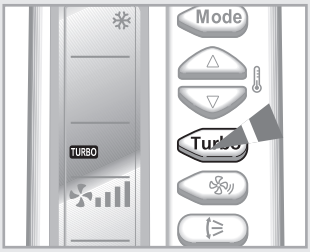
The Turbo cooling function is used to cool your room as quickly as possible.

Example : ***You have just come home and find that the room is very hot. You wish to cool it down as quickly as possible.***

The Turbo function operates for 30 minutes with the maximum settings before returning automatically to the mode and temperature previously selected.

1 If necessary, press the Set Cancel button.

Result:
- ◆ The operation indicator on the indoor unit lights up.
- ◆ The air conditioner starts up in Cool mode with Turbo fan speed.
- ◆ The indoor unit beeps.



2 Press the Turbo button.

Result:
- ◆ The temperature and fan settings are adjusted automatically.
- ◆ The air conditioner cools the room as quickly as possible.
- ◆ After 30 minutes, the air conditioner is reset automatically to the previous mode, temperature and fan settings.
- ◆ You can select the Turbo function in the Auto and Cool mode. If you select this function in the Dry or Fan mode, it will return to the Auto mode.

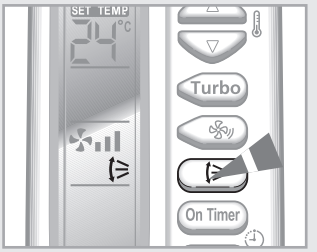
3 If you wish to stop the Turbo function before the end of the 30-minute period, press the Turbo button one or more times until TURBO disappears.

Result: The air conditioner is reset automatically to the previous mode, temperature and fan settings.

4 To control the direction of the air flow, refer to page 13.

Adjusting the Air Flow Direction Vertically

Depending on the position of the indoor unit on the wall of your room, you can adjust the position of the outer air flow blade on the bottom of the unit, thus increasing the efficiency of the air conditioner.



1 Press the (▷) button one or more times as required.

Result: The outer blade is adjusted vertically.

2 If you want the blade to move up and down automatically when the air conditioner is operating, press the (▷) button.

Result: The blade move up and down, around the base position set.

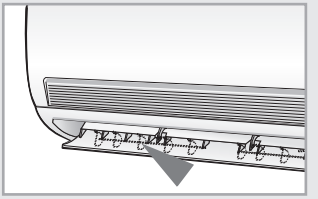
3 To stop the blade moving up and down, press the (▷) button again.

Note

If you switch the air conditioner...	*Then the blade is...*
Off	Closed completely.
On again	Set to the initial position powered.

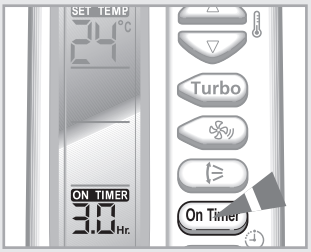
Adjusting the Air Flow Direction Horizontally

There are two sets of inner air flow blades. Just as the outer air flow blade can be adjusted vertically, the inner blades can be adjusted horizontally.



1 Adjust each set of inner blades to the required position, by pushing or pulling them sideways.

Setting the On Timer

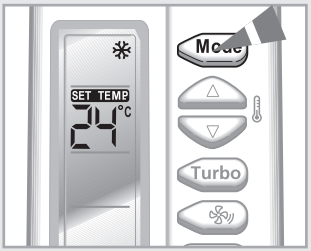


The On Timer enables you to switch on the air conditioner automatically after a given period of time. You can set the period of time from 0.5 hour to 24 hours.

1 To set the operating time, press the On Timer button one or more times until the required time is displayed. Possible time is between 0.5 hour and 24 hour inclusive.

2 Press the Set Cancel button to complete the setting.

Result:
- ◆ The remaining time is displayed.
- ◆ Blinking of the timer indicator stops.
- ◆ The selected mode and the temperature on the display disappear after 10 seconds.
- ◆ The air conditioner will switch on automatically when the counter displayed on the remote control reaches the set time and disappears the On Timer setting.



3 To select an operating mode in advance, press the Mode button until the desired mode is displayed at the top of the remote control.

Result: The air conditioner will run in the selected mode when it is turned on.

Note If you don't operate the remote control after setting the On Timer, it will be turned off automatically after 25 hours.

To Cancel the On Timer

If you no longer wish to use the On Timer that you have set, you can cancel it at any time.

1 To cancel the On Timer, press the On Timer button one or more times until the timer setting disappears.

2 Press the Set Cancel button.

Note If you want to turn on the air conditioner before the timer reaches the setting time, press the Set Cancel button.

Setting the Off Timer

The Off Timer enables you to switch off the air conditioner automatically after a given period of time. You can set the period of time from 0.5 hour to 24 hours.

1 To set the operating time, press the Off Timer button one or more times until the required time is displayed. Possible time is between 0.5 hour and 24 hour inclusive.

2 Press the Set Cancel button to complete the setting.

Result:
- The remaining time is displayed.
- Blinking of the timer indicator stops.
- The air conditioner will switch off automatically when the counter displayed on the remote control reaches the set time and disappears the Off Timer setting.

Example **If you would like to turn the air conditioner on after 2 hours and to operate it for 2 hours:**

1. Press the On Timer button until '2 Hr' is displayed.
2. Press the Set Cancel button.
3. Press the Off Timer button until '4 Hr' is displayed.
4. Press the Set Cancel button.

Note You can see or change the setting mode and/or the temperature by pressing the Mode button or the ▲ ▼ button after setting the Off Timer.

To Cancel the Off Timer

If you no longer wish to use the Off Timer that you have set, you can cancel it at any time.

1 To cancel the Off Timer, press the Off Timer button one or more times until the timer setting disappears.

2 Press the Set Cancel button.

Note If you want to turn off the air conditioner before the timer reaches the setting time, press the Set Cancel button.

Selecting Good Sleep Mode

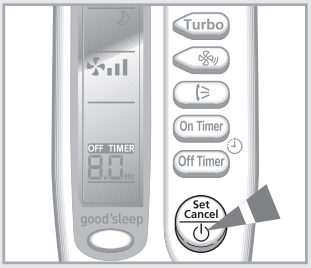
For cool only model: The Good Sleep function can be set whether the air conditioner is switched on or off, and this function can be selected for any mode.

Selecting the Good Sleep mode, as a default, the Off Timer will switch off the air conditioner after 8 hours automatically, or you can press the good'sleep button to set Off Timer in the range from 0.5 hour to 12 hours.then press the button to confirm this selection, during the period of Good Sleep mode, the possible temperatures are between 16°C and 30°C inclusive, but the fan speed and the direction of the air flow is nonadjustable.

1 Press the good'sleep button one or more times until is displayed on your remote control.

Result:
- ◆ The indoor unit beeps
- ◆ If Good Sleep is selected after switching on the unit, the air conditioner will run in Cool mode. During this period, the temperature displayed is one you set for the Cool mode. If the Good Sleep is selected before switch on the unit, the air conditioner starts running in Cool mode and the temperature is set to 26°C.
- ◆ The fan is running in auto mode.

To Cancel the Good Sleep



If you no longer wish to use the Good Sleep that you have set, you can cancel it at any time.

1 press the button to switch off the air conditioner.

2 To cancel a selected Good Sleep mode, you can also press the Mode, Turbo, Off Timer or On Timer button .

Operating Recommendations

Here are a few recommendations that you should follow when using your air conditioner.

Topic	Recommendation
Power failure	If a power failure occurs when the air conditioner is operating, the unit is switched off. When the power returns, the air conditioner starts up again automatically.

Temperature and Humidity Ranges

The following table indicates the temperature and humidity ranges within which the air conditioner can be used.

If the air conditioner is used at...	Then...
High temperatures	The automatic protection feature may be triggered and the air conditioner stopped.
Low temperatures	A water leak or some other malfunction may occur if the heat exchanger freezes.
High humidity levels	Water may condense on and drip from the surface of the indoor unit if it is used for long periods.

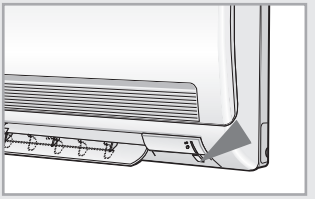
Mode	Outdoor Temperature	Indoor Temperature	Indoor Humidity
Cooling	21°C to 54°C approx.	16°C to 32°C approx.	80% or less
Drying	18°C to 54°C approx.	16°C to 32°C approx.	-

✳ ***If the cooling operation is used at over 33°C(indoor temperature), it does not cool at its full capacity.***

Operating Your Air Conditioner Without the Remote Control

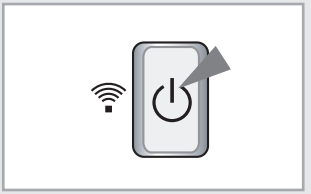
Your air conditioner can be operated directly from the indoor unit if the remote control is lost or broken.

1 To switch the air conditioner on, press the ON/OFF switch on the right side of the indoor unit.



Result:
- ◆ The OPERATION indicator on the indoor unit comes on.
- ◆ The indoor unit beeps.
- ◆ The air conditioner starts up in the appropriate mode for the room temperature.

2 To switch the air conditioner off, press the ON/OFF switch again.



Note Even if the air conditioner has been switched on via the ON/OFF switch, operations can still be controlled using the remote control as usual.

Solving Common Problems

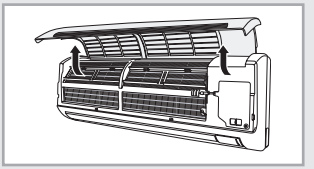
Before contacting the after-sales service, perform the following simple checks. They may save you the time and expense of an unnecessary call.

Problem	Explanation/Solution
The air conditioner does not operate at all	◆ Check that the breaker used for the air conditioner is switched on. ◆ Check that the operation indicator on the indoor unit is on; if necessary press the button on the remote control. ◆ Check whether the Timer indicator on the indoor unit is switched on. If so: - Wait until the switch-on time is reached and the air conditioner starts up automatically - Cancel the timer (see pages 14 and 15 for further details)
The air conditioner does not operate with the remote control	◆ Check that there are no obstacles between you and the indoor unit. ◆ Check the remote control batteries. ◆ Check that you are close enough to the indoor unit (seven meters/yards or less).
No beep is heard when you press the on the remote control	◆ Check that you are pointing the remote control at the remote control sensor in the right of the indoor unit. ◆ Replace the remote control batteries if necessary.
The air conditioner does not cool	◆ Check that the correct operating mode has been selected (Auto, Cool). ◆ The room temperature may be too low. ◆ Dust may be blocking the air filter guard; refer to page 19 for cleaning instructions. ◆ Check that there is no obstacle in front of the outdoor unit.
The fan speed does not change when you press the button	◆ Check that the operating mode is set to the Auto, Cool or Fan mode ; in the Dry mode, the fan speed changes automatically.
The air flow direction does not change when you press the button	◆ Check that the air conditioner has been switched on; if necessary, press the button on the remote control.
The timer is not correctly triggered	◆ Check that the timer has been programmed correctly; see pages 14 and 15.
Odour is permeated in the room during air conditioning	◆ Air the room.

Cleaning Your Air Conditioner

To get the best possible use out of your air conditioner, you must clean it regularly to remove the dust that accumulates on the air filter.

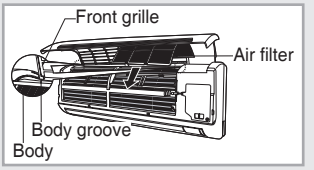
IMPORTANT **Before cleaning your air conditioner, ensure that you have switched off the breaker used for the unit.**



1 Open the upper front grille by pulling the lower right and left tabs of the grille.

2 Pull air filters out of each tab of the grille.

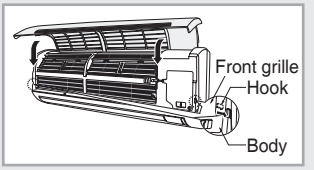
3 Remove all dust on the air filters with a vacuum cleaner or brush.



4 When you finished, insert air filters by fixing it to each tab of the grille.

5 To close the front grille, fix it to hooks and push down the lower right and left tabs of the grille.

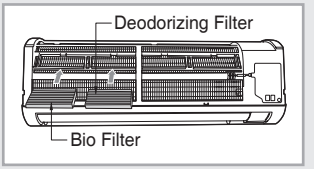
6 Clean the front grille with a damp cloth and mild detergent (do NOT use benzene, solvents or other chemicals).



Note ***If you have not used the air conditioner for a long period of time, set the fan going for three to four hours to dry the inside of the air conditioner thoroughly.***

Cleaning Deodorizing and Bio filter (Option)

To remove minute dust particles and odors, deodorizing and Bio filter are installed in the air conditioner. You should clean the filters every 3 months.



1 Open the upper front grille by pulling the lower right and left tabs of the grille.

2 Pull out the deodorizing and Bio filter.

3 Wash the filters with clean water, then dry them in the shade.

4 Insert the filters into the original position.

Note You can change the position of filters with each other.

5 Close the front grille.

Technical Specifications

MODEL			AS18FC(NA)UMG				AS24FC(NA)UMG			
STANDARD			ISO		SASO		ISO		SASO	
CAPACITY	COOL		18000BTU/h		3850kcal/h		24000BTU/h		5000kcal/h	
	HEAT		-		-		-		-	
SOURCE			220V~,60Hz							
CURRENT	COOL		8.8A		10.1A		13.5A		15.5A	
	HEAT		-		-		-		-	
INPUT POWER	COOL		1900W		2250W		2650W		3100W	
	HEAT		-		-		-		-	
REFRIGERANT	KIND		R22							
	QUANTITY		930g				1250g			
EER	COOL		9.4		5.4		9.05		5.4	
	HEAT		-		-		-		-	
TEMPERATURE	INDOOR	DB(C/H)	27°C	-	29°C	-	27°C	-	29°C	-
		WB(C/H)	19°C	-	19°C	-	19°C	-	19°C	-
	OUTDOOR	DB(C/H)	35°C	-	46°C	-	35°C	-	46°C	-
		WB(C/H)	24°C	-	24°C	-	24°C	-	24°C	-
WEIGHT	INDOOR	NET	13Kg				13Kg			
		CROSS	16Kg				16Kg			
	OUTDOOR	NET	39Kg				39Kg			
		CROSS	43Kg				43Kg			

MODEL			AS12FC(NA)UMG			
STANDARD			ISO		SASO	
CAPACITY	COOL		12000BTU/h		2650kcal/h	
	HEAT		-		-	
SOURCE			220V~,60Hz			
CURRENT	COOL		6.2A		7.6A	
	HEAT		-		-	
INPUT POWER	COOL		1300W		1600W	
	HEAT		-		-	
REFRIGERANT	KIND		R22			
	QUANTITY		670g			
EER	COOL		9.2		5.4	
	HEAT		-		-	
TEMPERATURE	INDOOR	DB(C/H)	27°C	-	29°C	-
		WB(C/H)	19°C	-	19°C	-
	OUTDOOR	DB(C/H)	35°C	-	46°C	-
		WB(C/H)	24°C	-	24°C	-
WEIGHT	INDOOR	NET	8.4Kg			
		CROSS	10.6Kg			
	OUTDOOR	NET	26.0Kg			
		CROSS	27.5Kg			

SAMSUNG ELECTRONICS

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